

CLAIMS

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1. Communication device which is adapted for placement in a users ear and comprises a shell part enclosing an input transducer for receiving an input signal, a signal processing device and an output transducer for providing a signal perceivable as sound, a battery located at a surface part of the shell which is facing away from the head of the user, a transmission and reception circuit for transmission and/or reception of electromagnetic energy, and whereby an antenna for radiating and/or receiving electromagnetic energy is provided such that it has a first surface turned towards the surroundings and a second surface located in close proximity of the battery.

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2. Communication device as claimed in claim 1, wherein the antenna is tuned to radiate and/or receive electromagnetic energy in the frequency range of 50 MHz to 50 GHz.

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3. Communication device as claimed in claim 1, wherein the antenna is shaped as a part of a flexprint.

4. Communication device as claimed in claim 1, wherein the antenna is embedded in material externally of the battery.

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5. Communication device as claimed in claim 4, wherein the antenna is a metal part.

6. Communication device as claimed in claim 1, wherein the antenna is manufactured by deposition of metal material on surface parts of the faceplate and/or battery drawer.

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7. Communication device as claimed in claim 1, wherein the antenna covers a surface area of the shell which is wider than the projection of the battery onto the faceplate surface.

8. Communication device as claimed in claim 1, wherein the antenna comprises a loop, which is usable also as a charging loop for a battery.